

Guns and Ammunition, Missiles and Rockets

National Defense Industrial Association (NDIA)

Armament Division

2002 Division Status

24 March 2003

DoD Vision

- Transformation
- Jointness
- Responsive ' flexibility

NDIA Armament Division

- Seeking to ensure relevance
- Enabling “community” awareness — communication
- Evolving organizations
- Listening
- Expanded participation

Transforming Together Effectively

Armament Division Success



Guns and Ammunition/Missiles and Rockets

Small Arms Committee

Value Added Has Been Demonstrated

Leadership to Strengthen the Armament Community

Challenge: Applying Technology, Systems for Transformation

Ensuring Readiness Advancing Superior Capability

Symposium Benefits Confirmed



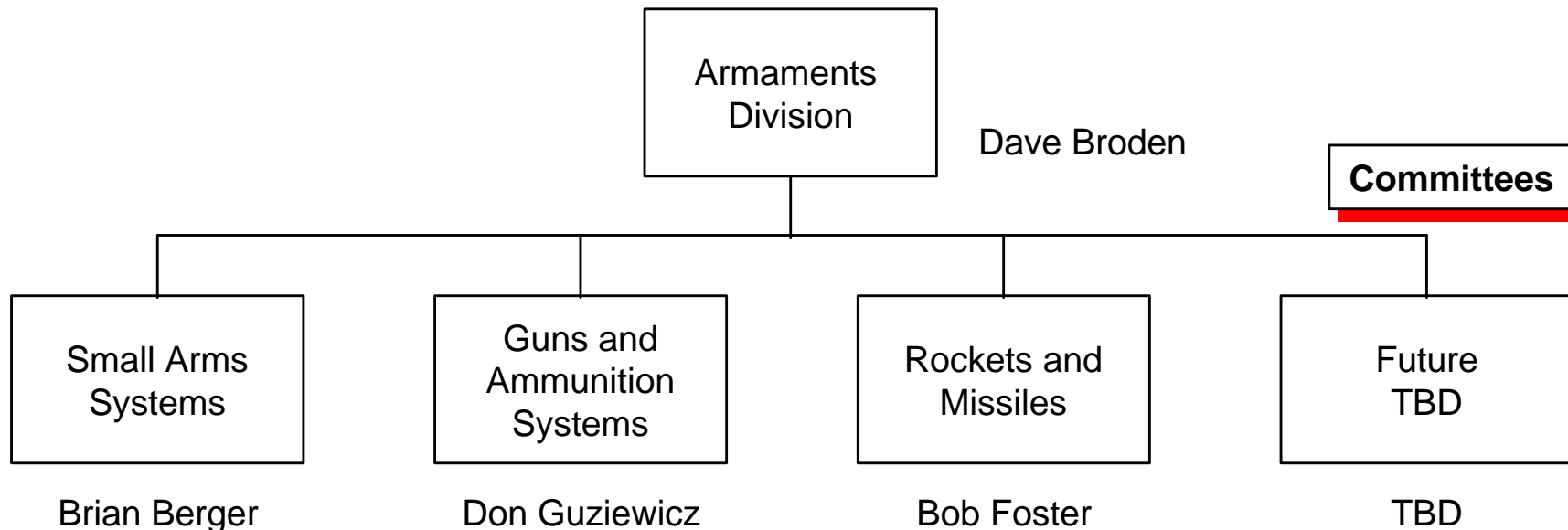
Superior Technology and Systems — Readiness — Affordability

Provide organizational focus to Armament Systems used by U.S. and allied countries and to address other topics relevant to armament systems

- “Lessons learned”/deficiencies/needs
 - Requirements pull/technology push
 - Development
 - Deployment
 - Operations
 - International cooperation
 - Acquisition
 - Affordability
 - Supportability
 - ➔ • Spiral development*
- Life Cycle Focus
- Acquisition Management
- *Critical new focus

Adapt Organization to Meet Priority Topics

Objective: Coordinated Focus and Vision for Armament Systems



Transforming the Organization – Ensures Relevance

**Scope – Area of Interest – Responsibility
Definition Clarity**

Seeking Cooperation with Related Sections

Themes, areas discussed; no specific action

Small Arms Systems

- Individual weapon(s)
- Crew served weapon(s)
(e.g., $\leq 40\text{mm}$)
- Full life cycle
- Supportability
 - Training
 - Logistics
- System integration
- Target Acquisition/Fire Control System (TA/FCS)

Guns and Ammunition

- Medium caliber systems
- Tank systems
- Mortar systems
- Artillery
- Naval gun systems
- Aircraft/helicopter systems
- Platform integration
- Manned/robotic
- System integration
- TA/FCS
- Supportability
- Life cycle

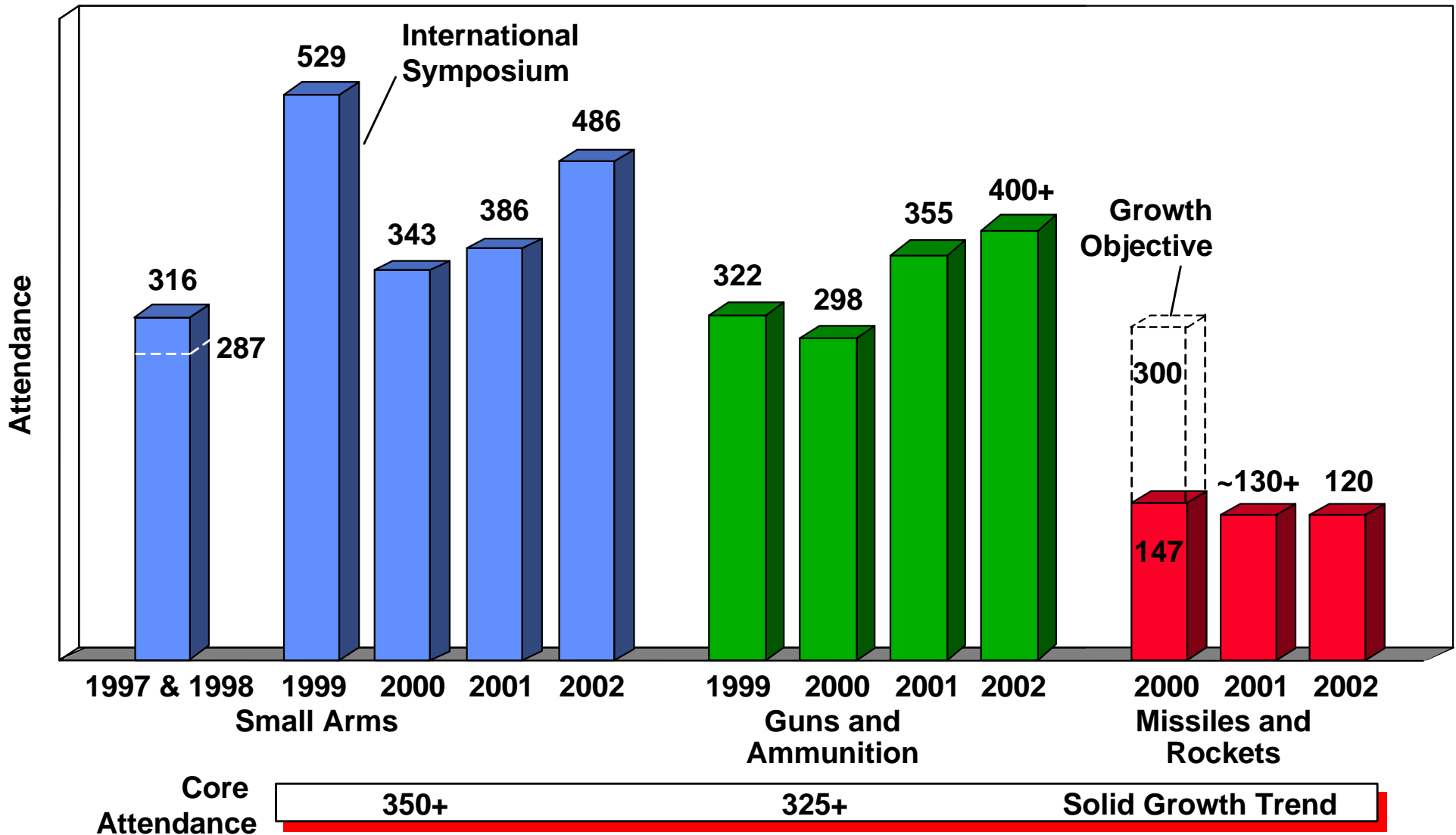
Missiles and Rockets

- Tactical missiles and rockets
- Shoulder fired systems
- Ground launched
- Aircraft/helicopter launched
- System integration
- Manned/robotic
- Life cycle

Common Enabling Technologies, Modeling/Simulation, Man-Tech

Links to Other Committees

Armament Division Attendance Summary



Interest and Commitment = Growth



Guns and Ammunition

Missiles and Rockets

Evolving Technology to Meet Emerging Threats

Addressing the Theme!

- Pushing technology envelope
- Pushing integration envelope
- Adding functions
- Manned and robotic applications
- Capability focused complementary integrated systems
- Address key force multipliers
 - Precision
 - Mobility
 - Communication
 - Situation awareness
 - Lethality
- Planning and implementing Spiral Development

- Keynote link — message
- Framework for presentation(s)
- Presentation objectives and benefits
 - Link to theme
- Exhibits/displays/demonstrations
 - Connect to theme
- Effective “networking” forum

Themes: Link Community, Systems, Technology with Operational Capability and Related Concerns

Applying Technology to Meet Emerging Threats

- Direct Integration
- Spiral Development

- Requirements Pull
- Technology Push

- Threat Specific Solutions
vs.
Capability Driven
and
Adaptable
- Spiral Development

Response to Symposium Theme

– Adaptable, Innovative, Visionary, Capability Focused

Supporting the Combat Unit to Combat Support of Terrorism

- Understand “After Action Report”
- Response to Need
- Innovative Concepts

- Individual
- Crew Served
- Unique Platforms
- Adaptability

- Weapon(s)
- System Integration
- Sensors
- Target Acquisition/
Fire Control System
- Spiral Development

Response to Symposium Theme

– Adaptable, Innovative, Visionary, Capability Focused

Armament Division 2003 Highlights



- Expanded use of panel discussions focus to key interest topics
- Solid links to Transformation topics
- Focus on relevant topics
- Make-up and action of executive committees strengthened
- Organization of National Small Arms Center evolving
 - Similar to WETC
 - Focus to small arms
 - Growth consideration if proven effective
- Leadership in Navy SUW Study
- Recognize forum for business/technology “networking”
 - Building relationship for understanding and success



- “Lessons Learned” awareness — focus improvements
- Visibility of armament capability changing vision
 - Realizing precision
 - Technology synergism
 - Complementary capability
 - Spiral development
- Strengthening technology and readiness
 - Maintain strong development and production base
 - Evolving organizational and funding structure(s)
 - Understanding technology readiness
- Dialogue of key issues and topics — panel discussions

Armament Division Relevant Topics



1. Realizing Transformation
 - Objectives
 - Successes
 - Barriers
 - The future
2. System selection and definition Decision Level/Criteria
 - Weapon
 - Integration
 - Operational
3. Balancing Transformation Objectives and Legacy systems
 - Ensuring readiness
 - Integrating change

Symposium Agenda Expand Dialogue



Armament Division Relevant Topics (Concluded)



4. Addressing system integration — all aspects
5. Spiral development and fielding — concept or reality?
 - Examples
 - Process
 - Barriers

Symposium Dialogue Enables Understanding



Division Links to DoD

- Strengthen and become visible
- Establish active sponsor(s)
 - Participation
- Ensure multi-service “purple” balance (“jointness”)
- Link to trends

Strategic Focus

- Ensure all committees have a strategy
- Executive committee make-up
- Committees must help make community (DoD/industry/international) more effective
- Transform objectives, membership, leadership for ensured relevance

Symposium Quality

- Key program/theme/organizational leadership must be involved/participate
- Solid keynote messages
- Presentations focused to key areas — “add value”

Joint Symposiums

- Within NDIA
- With other organizations
 - National
 - International

Displays/Exhibits

- Link to themes/trends (message to exhibitors)
- Emphasis industry response to needs/themes

Armament Division Activity Opportunities



1. Facilitate dialogue of “After Action – Lessons Learned”
 - Understanding
 - Product design/performance impact
 - Technology assessment
2. “Pool” expertise to address key priority topics
 - Multi-company
 - Multi-agency
3. “Capture” community committee priorities . . . ensure relevance
 - Questionnaires
 - Panels
4. Communicate DoD “Trends/Initiatives”
 - Key leadership must participate
 - Ensure committee critique
 - Communicate
 - Change
5. Expand use of “Panel” discussions on critical topics
 - Expertise
 - Pros/cons
 - Surface key concerns

**Include in Symposiums or
Special Study Teams**

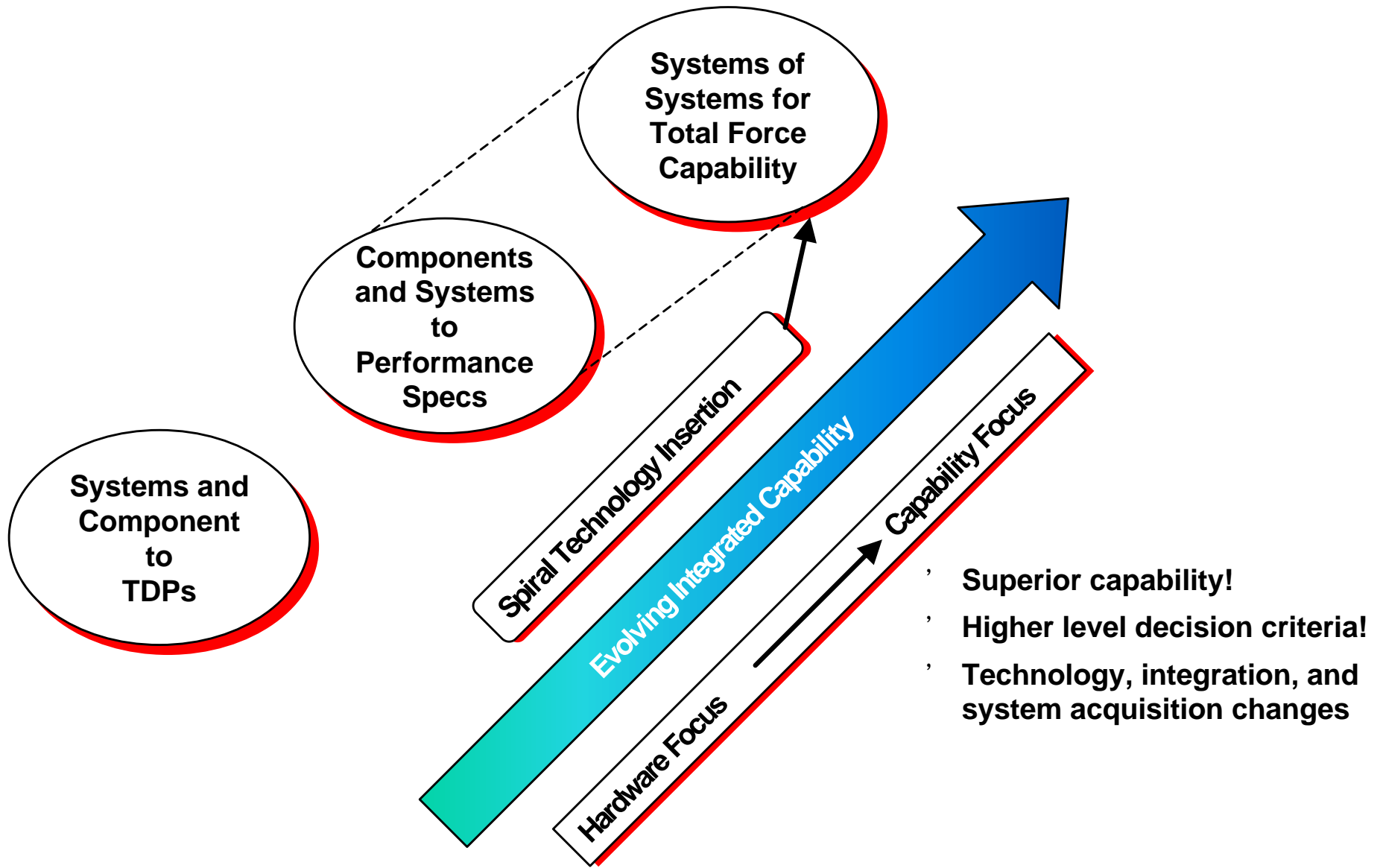
Industry/DoD Task Forces

Ensuring Relevance

- Evolve executive committee
 - Integrate relevant organization
 - Industry
 - Government
 - Strategic response
- Symposium themes
 - Future “vision” focus
 - Ensure readiness
- Symposium content
 - Include emerging technology and capability
- Attendees
 - Active participation of emerging resource
 - Network forum

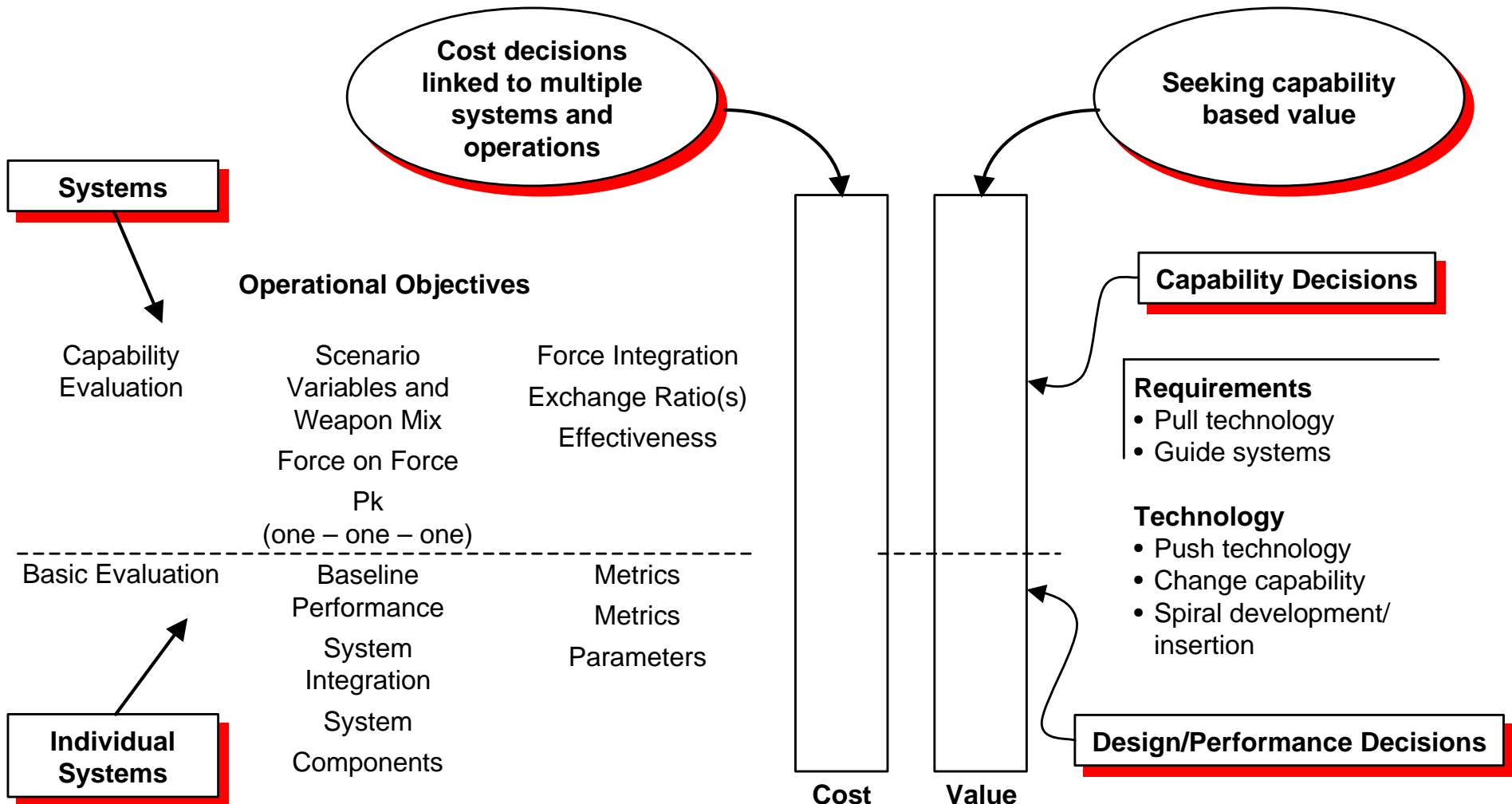
Armament Division is Transforming and Responsive

Approach Evolving Value = Capability Driven



Armament System Decision Levels

Capability Based Force Raises Decision Level Metric



NDIA International Symposium Links



Objective: International cooperation and integration of symposiums benefiting industry and Department of Defense to encourage partnerships for development, production, and interoperability

Approach: Coordination of NDIA Armament Division programs with “Symposium at Shrivenham” The Royal Military College of Science

European Small Arms and Cannon Symposium

August 2003

2003 Top Defense Issues



1. Funding America's defense for Wartime and Transformation
2. Sustaining the Defense Industrial Base
3. Protecting the Defense Industrial Base
4. Improving the International Competitiveness
5. Transforming Training and Logistics
6. Implementing a reasoned strategy for Network Centric Operations
7. Utilizing small businesses

NDIA Board of Directors Approved Focus

Established by Government Policy Advisory Committee



- National Defense Magazine
 - Emphasis on relevant and timely topics
 - Frequently quoted and source of media, DoD, and Congressional reference
- Website
 - Symposium presentations available — meets attendee needs for access
 - Complementary information
 - Full list of activity

NDIA Messages and Content Has Impact

and

Website Used Extensively as Resource

NDIA Focus ' Transform the Organization ' Ensures Relevance

**Addressing Issues Critical to Guns and Ammunition,
Missiles and Rockets**

Armament Division Focus

- Strong interest and participation
- Linked to key DOD and service strategies
- Encouraging leverage for complementary systems
- Effective use of exhibits, demonstrations, and tours
- Transitioning membership and participation profile

Transforming Vision for 21st Century Relevance

Applying System Synergism to Meet Transformation Goals

NDIA Armament Division Is:

- A relevant voice and forum
- Responsive to DoD community and industry challenges
- Transforming to ensure relevance to changing military, geopolitical environments, and technology

**The NDIA Community is the
Resource of Choice For Excellence in
National Defense Topics/Communications**